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UTILITY PATENT APPLICATION **TRANSMITTAL**

18,5000

First Inventor or Application Identifier Lincoln

Automatic Genotype Determination

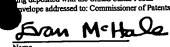
APPLICATION ELEMENTS See MFPE proconcerning utility patent application contents. 1. X *Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) 2. X Specification (Irotal Pages 33 Ipreferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 3. X Drawing(s) (35 U.S.C. 113) [Total Sheets 6] 4. Oath or Declaration [Total Pages 3] a. Newly executed (original or copy) b. X Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 16 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. § 1.63(d)(2) and 1.33(b). Microfiche Computer Program (Appendix) 6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Copy b. Paper Copy (identical to computer copy) a. Computer Readable Copy b. Paper Copy (identical to computer copy) b. Active Translation Pages (cover sheet & document(s)) 7. Assignment Papers (cover sheet & document(s)) 8. 37 C.F.R.§ 3.73(b) Statement (IDS)/PTO-1449 9. English Translation Document (if applicable) 10. Statement (IDS)/PTO-1449 11. X Preliminary Amendment 12. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 13. Statement(s) 14. (if foreign priority is claimed) 15. Other: 16. Ha CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: 18. Ontinuation Divisional Continuation-in-part (CIP) 19. OR ONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: 19. Or ONTINUING APPLICAT	APPLICATION ELEMENTS. AMPER Plaquets 600 concerning utility patent application contents. ADDRESS TO: Box Patent Application Washbuston. DC. 2021 The Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) (preferred arrangement set forth below) Specification [Trail Pages] 33 1 (Trail Pages] 34 (Trail Pages] 34 (Trail Pages] 35 1 (Trail	Only to New Horiprovisional applications under 37 C.F. A. 9 1.00(0), Express Hall 1250 1773 7770								
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i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). [**NOTE FOR TITEMS 174_13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27). EXCEPT IF ONE FILED IN A PRIOR APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: X Continuation Divisional Continuation-in-part (CIP) of prior application No: 09 / 088 ,820 Prior application information: Examiner Jeffrey Fredman Group / Art Unit: 1655 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an eath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporate reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here)	i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). NOTE FOR ITEMS 1.3.19: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY EES, A SMALL ENTITY STATEMENT IS REQUIRED BY C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION is RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IS RELIED UPON 17 C.F.R. § 1.27. EXCEPT FONE FILED IN A PRIOR A PEPLECATION IN	b. []	X Copy from a prior application (37 C.F.R. § 1.63(d)) Small Entity Statement filed in prior application.						
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). **TATE FOR TIEMS 1.8.13: IN ORDER 70 BE ENTITLED. TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R.§ 1.27); EXCEPT FONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R.§ 1.28). 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: **X** Continuation** Divisional Continuation-in-part (CIP) of prior application No:09_/_088_,820 Prior application information: Examiner Jeffrey Fredman Group / Art Unit:1655 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an eath or declaration is supplie under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporate reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts 17. CORRESPONDENCE ADDRESS **David A. Kalow** Kalow & Springut LLP** 488 Madison Avenue, 19th Floor	Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). NOTE FOR ITEMS 18.31: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY ESS, ASMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R.§ 1.27). EXCEPT FONE FILED IN A PRIOR APPLICATION IS RELIED UPON 137 C.F.R.§ 1.27). EXCEPT FONE FILED IN A PRIOR APPLICATION IS RELIED UPON 137 C.F.R.§ 1.27). EXCEPT FONE FILED IN A PRIOR APPLICATION IS RELIED UPON 137 C.F.R.§ 1.27). EXCEPT FONE FILED IN A PRIOR APPLICATION IS RELIED UPON 137 C.F.R.§ 1.27). EXCEPT FONE FILED IN A PRIOR APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:			I I Status still proper and desired						
See 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). NOTE FOR TIMES 1.8.13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT. FONE FILED IN A PRIOR APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: X	See 37 C.F.R. §§ 1.63(d)(2) and 1.33(b). NOTE FOR ITEMS 12.13: IM ORDER 70 BE ENTITLED TO PAY SMALL ENTITY FONE PILED IN A PRIOR APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:		Signed statement attached deleting	114 1 1 1 1 1 1 1 1 1						
Those for thems 1 & 13: IN ORDER: TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED BY C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION is Relied UPON (37 C.F.R. § 1.28). 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: \[\begin{array}{c} \text{X} \text{ Continuation} \text{Divisional} \text{Continuation-in-part (CIP)} of prior application No: \text{99 \cdot 088 \cdot 820} \\ \text{Prior application information: Examiner Jeffrey Fredman Group / Art Unit: 1655} \\ \text{For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporate reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS \[\begin{array}{c} \text{Unsterner Number or Bar Code Label} & \text{(Insert Customer No. or Attach bar code label here)} \end{array} \] \[\text{Value A Springut LLP} \\ 488 Madison Avenue, 19th Floor	NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY TESS, AS MALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT FOME FILED IN A PRIOR APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: \[\begin{array}{c} \text{ Continuation} & \text{ Divisional} & \text{ Continuation-in-part (CIP)} & \text{ of prior application information:} & \text{ Examiner } \text{ Jeffrey Fredman} & \text{ Group / Art Unit:} & \text{ 1655} & \text{ Prior application information:} & \text{ Examiner } \text{ Jeffrey Fredman} & \text{ Group / Art Unit:} & \text{ 1655} & \text{ CONTINUATION or DIVISIONAL APPS only:} The entire disclosure of the prior application, from which an oath or declaration is supplied dor Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by erence. The incorporation gan only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label			, (if foreign priority is claimed)						
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: X	EES, ASMALL ENTITY STATEMENT IS REQUIRED BY C.F.R. § 1.281. S. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: \[\begin{array}{c} \text{S. Continuation} \text{Divisional} \text{Continuation-in-part (CIP)} \text{of prior application No: } \text{09 } \text{088}, 820 \text{Prior application information: } \text{Examiner } \text{Jeffrey Fredman} \text{Group / Art Unit: } \text{1655} \text{CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied der Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by erence. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. \[\begin{array}{c} \text{17. CORRESPONDENCE ADDRESS} \end{array} \] \[\text{Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here)} \] \[\text{Vortional A. Kalow Kalow & Springut LLP} \] \[\text{488 Madison Avenue, 19th Floor} \] \[Vork State New York Zip Code 10022 10	[F-17-2-2-2-2								
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: X	Mame (PrintType) Franklin S. Abrams Application No. (Attomey/Agent) Ag Agrams A	FEES, A SMAL	LL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT	,						
Continuation Divisional Continuation-in-part (CIP) of prior application No: 09 / 088,820 Prior application information: Examiner Jeffrey Fredman Group / Art Unit: 1655	Continuation Divisional Continuation-in-part (CIP) of prior application No:09_/_088_,820									
Prior application information: Examiner Jeffrey Fredman Group / Art Unit: 1655 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an eath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporate reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here)	Prior application information: Examiner Jeffrey Fredman Group / Art Unit: 1655 r CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied der Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by erence. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label-here)			. 00 000 000						
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T7. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) David A. Kalow Kalow & Springut LLP 488 Madison Avenue, 19th Floor	Tourispondence address below Customer Number or Bar Code Label	under Box 4b	, is considered a part of the disclosure of the accompan	ying continuation or divisional application and is hereby incorporated by						
Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) David A. Kalow Kalow & Springut LLP 488 Madison Avenue, 19th Floor	Customer Number or Bar Code Label [Insert Customer No. or Attach bar code label here] The David A. Kalow Kalow & Springut LLP 488 Madison Avenue, 19th Floor The New York United States Telephone Name (Print/Type) Franklin S. Abrams To Correspondence address below Attach bar code label here) To Correspondence address below Attach bar code label here) Attach bar code label here) The Correspondence address below Attach bar code label here) The Correspondence address below Registration No. (Attorney/Agent) Attach bar code label here) The Correspondence address below Registration No. (Attorney/Agent) Attach bar code label here) The Correspondence address below Registration No. (Attorney/Agent) Attach bar code label here) The Correspondence address below Registration No. (Attorney/Agent) Attach bar code label here)									
Name David A. Kalow Kalow & Springut LLP 488 Madison Avenue, 19th Floor	David A. Kalow Kalow & Springut LLP	17. CURRESPUNDENCE ADDRESS								
Name David A. Kalow Kalow & Springut LLP 488 Madison Avenue, 19th Floor	David A. Kalow Kalow & Springut LLP		N. abas a Cardada da da	or Correspondence address below						
Name David A. Kalow Kalow & Springut LLP 488 Madison Avenue, 19th Floor	David A. Kalow Kalow & Springut LLP									
Kalow & Springut LLP 488 Madison Avenue, 19th Floor	Kalow & Springut LLP 488 Madison Avenue, 19th Floor New York State New York Zip Code 10022 Jountry United States Telephone 212 813 1600 Fax 212 813 9600 Name (Print/Type) Franklin S. Abrams Registration No. (Attorney/Agent) 43,457		***************************************	anni anni anni anni anni anni anni anni						
488 Madison Avenue, 19th Floor	488 Madison Avenue, 19th Floor	Name	Kalow & Springut LLP							
Address	New York State New York Zip Code 10022									
	Name (Print/Type) Franklin S. Abrams Registration No. (Attorney/Agent) 43,457	Address								
	Name (Print/Type) Franklin S. Abrams Registration No. (Attorney/Agent) 43,457	City	New York State	New York Zip Code 10022						
Country United States Telephone 212 813 1600 Fax 212 813 9600	Flanklin 5. Ablans	Country	United States Telephone	212 813 1600 Fax 212 813 9600						
Name (Print/Type) Front Fron		Name (P	PrintType) Franklin S Abrame	Registration No. (Attorney/Agent) 43, 457						
	Signature Frankin about Date 7/18/00		Trankiin D. Abrans							

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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18,2000





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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE ollection of information unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a c FEE TRANSMITTA for FY 2000

Patent fees are subject to annual revision. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT

(\$) 2046.00

Complete if Known						
Application Number						
Filing Date						
First Named Inventor	Lincoln					
Examiner Name	Fredman (from patent) 1655 (from parent)					
Group / Art Unit	1655 (from parent)					
Attorney Docket No.	13020-10					

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)					
1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: 3. ADDITIONAL FEES FON 09/088,820 Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe						
Deposit Account Number 11-0171	Fee Fee Fee Fee Fee Fee Description Fee Paid 105 130 205 65 Surcharge - late filling fee or oath					
Deposit Kalow & Springut LLP	127 50 227 25 Surcharge - late provisional filing fee or cover sheet.					
Name	139 130 139 130 Non-English specification					
Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17	147 2,520 147 2,520 For filing a request for reexamination 112 920* 112 920* Requesting publication of SIR prior to					
2. X Payment Enclosed:	Examiner action 113 1,840* 113 1,840* Requesting publication of SIR after					
☑ Check ☐ Order ☐ Other	Examiner action 115 110 215 55 Extension for reply within first month					
FEE CALCULATION	116 380 216 190 Extension for reply within second month					
1. BASIC FILING FEE	117 870 217 435 Extension for reply within third month 870					
Large Entity Small Entity Fee Fee Fee Fee Description	118 1,360 218 680 Extension for reply within fourth month					
Code (\$) Code (\$) Fee Paid	128 1,850 228 925 Extension for reply within fifth month					
101 690 201 345 Utility filing fee 690	119 300 219 150 Notice of Appeal					
106 310 206 155 Design filing fee	120 300 220 150 Filing a brief in support of an appeal					
107 480 207 240 Plant filing fee	121 260 221 130 Request for oral hearing					
108 690 208 345 Reissue filing fee	138 1,510 138 1,510 Petition to institute a public use proceeding					
114 150 214 75 Provisional filing fee	140 110 240 55 Petition to revive - unavoidable					
SUBTOTAL (1) (\$) 690.00	141 1,210 241 605 Petition to revive - unintentional					
2. EXTRA CLAIM FEES	142 1,210 242 605 Utility issue fee (or reissue)					
Fee from Extra Claims below Fee Paid	d 143 430 243 215 Design issue fee					
Total Claims 47 -20** = 27 x 18 = 486	144 580 244 290 Plant issue fee					
Independent 2 - 3** = 0 x = 0	122 130 122 130 Petitions to the Commissioner					
Multiple Dependent =	123 50 123 50 Petitions related to provisional applications					
**or number previously paid, if greater; For Reissues, see below	w 126 240 126 240 Submission of Information Disclosure Stmt					
Large Entity Small Entity Fee Fee Fee Fee Pee Description Code (\$) Code (\$)	581 40 581 40 Recording each patent assignment per property (times number of properties)					
103 18 203 9 Claims in excess of 20	146 690 246 345 Filing a submission after final rejection (37 CFR § 1.129(a))					
102 78 202 39 Independent claims in excess of 3 104 260 204 130 Multiple dependent claim, if not paid	149 690 249 345 For each additional invention to be					
109 78 209 39 ** Reissue independent claims over original patent	Other fee (specify)					
110 18 210 9 ** Reissue claims in excess of 20 and over original patent	Other fee (specify)					
SUBTOTAL (2) (\$) 486.00	Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 870.00					
SUBMITTED BY Complete (if applicable)						

SUBMITTED BY			Complete (ii	applicable)
Name (Print/Type)	Franklin S. Abrams	Registration No. (Attorney/Agent) 43,457	Telephone	212 813 1600
Signature	Frentin above		Date	7/18/00

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